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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/945,171	08/30/2001	Howard J. Smith	920476-904953	3257	
23644 7590 08/07/2007 BARNES & THORNBURG LLP P.O. BOX 2786			EXAM	EXAMINER	
			BOCURE, T	BOCURE, TESFALDET	
CHICAGO, IL 60690-2786			ART UNIT	PAPER NUMBER	
			2611		
			MAIL DATE	DELIVERY MODE	
			08/07/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		09/945,171	SMITH ET AL.			
		Examiner	Art Unit			
		Tesfaldet Bocure	2611			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHO WHIC - Exter after - If NO - Failui Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAISIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing of patent term adjustment. See 37 CFR 1.704(b).	TE OF THIS COMMUNICAT 6(a). In no event, however, may a reply to ill apply and will expire SIX (6) MONTHS cause the application to become ABAND	TION. De timely filed  from the mailing date of this communication.  ONED (35 U.S.C. § 133).			
Status		•				
2a)	Responsive to communication(s) filed on <u>26 Ap</u> This action is <b>FINAL</b> . 2b)⊠ This Since this application is in condition for allowan closed in accordance with the practice under E.	action is non-final. ce except for formal matters,				
Dispositi	on of Claims					
5)⊠ 6)⊠ 7)□	Claim(s) <u>1-14</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) <u>1-8,13 and 14</u> is/are allowed. Claim(s) <u>11 and 12</u> is/are rejected. Claim(s) <u>9 and 10</u> is/are objected to. Claim(s) are subject to restriction and/or					
Applicati	on Papers					
10) 🔲 -	The specification is objected to by the Examiner The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correction The oath or declaration is objected to by the Example.	pted or b) objected to by the lawing(s) be held in abeyance. on is required if the drawing(s) is	See 37 CFR 1.85(a). s objected to. See 37 CFR 1.121(d).			
Priority u	nder 35 U.S.C. § 119					
12) <u></u>	Acknowledgment is made of a claim for foreign All b) Some * c) None of:  1. Certified copies of the priority documents  2. Certified copies of the priority documents  3. Copies of the certified copies of the priori application from the International Bureau ee the attached detailed Office action for a list of	have been received. have been received in Applie ty documents have been received. (PCT Rule 17.2(a)).	cation No eived in this National Stage			
A44aab	(5)					
2) Notice 3) Inform	(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date		nary (PTO-413) ill Date nal Patent Application			

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#### **DETAILED ACTION**

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#### Specification

1. The disclosure is objected to because of the following informalities: The disclosed US patent application number 09/209,386 should be updated by it US patent number and issue date as---now issued as US patent number 6,275,685 issued on August 14, 2001---.

Appropriate correction is required.

### Claim Objections

2. Claims 9-12 are objected to because of the following informalities:

The claimed "determined said error values" in claim 9, line 12 should be amended to read as—determine said error value—. See the "error value" determined by the difference means in line 10.

The claimed "determining error values" in claim 9, line 12 should be amended to read as---determining said error value--. See the "error value" determined by the step for determining in line 6.

Claims 10 and 12 is inherently objected as being dependent on the objected base claim.

Appropriate correction is required.

## Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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- 4. Claims 11 and 12 are rejected under 35 U.S.C. 102(e) as being anticipated by Wright, Wright hereinafter (US patent number 6,054,896, newly cited)
- 5. Wright teaches a transmitter for adjusting the non-linear characteristics of a transmitting amplifier (15 and 16) having a gain (amplitude) and phase error detection circuit (28), where the phase error detection circuit comprising: detecting the phase and amplitude error from input and output of the amplifier (see inputs 13.14 and 137 in fig. 1): determining the difference between the detected value for generating an error value (X(t) output from the element 28); and the compensating means for compensating the non-linear distortion as a function of the input signals Pha (t) and Phb (t), wherein the output of the amplifier is normalized with respect to the amplifiers input (see col. 15, lines 5-30).

Further to claim 12, Wright also teaches that the phase error and gain error are averaged (see col. 22, lines 58 through col. 23, line 10).

## Allowable Subject Matter

6. Claims 1-10 and 13-14 are allowed.

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The following is a statement of reasons for the indication of allowable subject 7. matter. The claimed subject matter in claims 1-10 and 13-14 is allowable because the arts of record fail to teach or fairly suggest the claimed "comparator for an amplifier (claimed comparator and pre-distortion arrangement in claims 7,9 and 13) comprising: a switch means (see switches 104a-104d and 108a-108d) coupled to the first and second detectors (101 and 112) for selectively coupling the input signal to the amplifier (42) and the output signal from the amplifiers (54)to the detectors (110 and 112); and in combination with the claimed difference means and digital signal processing means" in claims 1,7,9,13 and 14.

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#### Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tesfaldet Bocure whose telephone number is (571) 272-3015. The examiner can normally be reached on Mon-Thur (7:30a-5:00p) & Mon.-Fri (7:30a-5:00p).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammed H. Ghayour can be reached on (571) 272-3021. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

T.Bocure